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NiceProt View of Swiss-Prot: O95948

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[Sequence] [Tools]

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Entry name	ONC2_HUMAN
Primary accession number	O95948
Secondary accession numbers	None
Entered in Swiss-Prot in	Release 40, October 2001
Sequence was last modified in	Release 40, October 2001
Annotations were last modified in	Release 41, February 2003

1. The first group of people who are not in the labor force are those who are not in the labor force because they are not in the labor force.

Protein name	One cut domain family member 2
Synonyms	ONECUT-2 transcription factor OC-2

Gene name **ONECUT2**

From Homo sapiens (Human) [TaxID: 9606]

Taxonomy: Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Ltheria; Primates; Catarrhini; Hominidae; Homo.

[illegible]

[1] SEQUENCE FROM NUCLEIC ACID.

MEDLINE=99115605; PubMed=9915796; [NCBI, ExPASy, EBI, Israel, Japan]

Jacquemir P., Lannoy V., Rousseau G.G., Lemaigre F.P.:

"OC-2, a novel mammalian member of the ONECT class of homeodomain transcription factors whose function in liver partially overlaps with that of hepatocyte nuclear factor-6";

J. Biol. Chem. 274:2665-2671 (1999).

1. *Chlorophyll a* (Chl *a*)

- **FUNCTION:** TRANSCRIPTIONAL ACTIVATOR. ACTIVATES THE TRANSCRIPTION OF A NUMBER OF LIVER GENES SUCH AS HNF3B.
- **SUBCELLULAR LOCATION:** Nuclear.
- **SIMILARITY:** Contains 1 CUT domain.
- **SIMILARITY:** BELONGS TO THE CUT/HOMEOBX FAMILY.

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1. *Chlorophyll a* (Chl *a*)

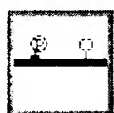
EMBL: Y18198; CAB38253.1; - [EMBL - GenBank - DDBJ] [CodingSequence]

TRANSEAC 10-259; 4.
 Genew HGNC:8139; ONECUT2.
 CleanEx HGNC:8139; ONECUT2.
 MIM 604894 [NCBI: LBI].
 GeneCards ONECUT2.
 GeneLynx ONECUT2; Homo sapiens.
 GO 0003702; Molecular function: RNA polymerase II transcription factor activity
(traceable author statement).
 GO 0007397; Biological process: histogenesis and organogenesis *(traceable author
 statement)*.
 SOURCE ONECUT2; Homo sapiens.
 Ensembl O95948; Homo sapiens. [Entry / Contig view]
 InterPro IPR007108; Cut_homeo.
 IPR003350; Hmoec_CUT.
 IPR001356; Homeobox.
 Graphical view of domain structure.
 Pfam PF02376; CUT: 1.
 PF00046; homeobox: 1.
 ProDom PD000010; Homeobox: 1.
 [Domain structure / List of seq. sharing at least 1 domain]
 SMART SM00389; HOX: 1.
 PROSITE PS00027; HOMEBOX_1; FALSE_NEG.
 PS70071; HOMEBOX_2: 1.
 HOVERGEN [Family / Alignment / Tree]
 BLOCKS O95948.
 ProtoNet O95948.
 ProtoMap O95948.
 PRESAGE O95948.
 DIP O95948.
 ModBase O95948.
 SWISS-2DPAGE Get region on 2D PAGE.

available

Transcription regulation: Homeobox: DNA-binding: Nuclear protein: Activator.

available



Feature table viewer



Feature aligner

Key	From	To	Length	Description
123-123	1	100	100	123-123
123-123	1	100	100	123-123
123-123	1	100	100	123-123
123-123	1	100	100	123-123
123-123	1	100	100	123-123
123-123	1	100	100	123-123
123-123	1	100	100	123-123

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NiceProt View of TrEMBL: Q8K557

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Entry name **Q8K557**

Primary accession number **Q8K557**

Secondary accession numbers None

Entered in TrEMBL in Release 22, October 2002

Sequence was last modified in Release 22, October 2002

Annotations were last modified in Release 24, June 2003

Name and origin of the protein

Protein name **Onecut 3**

Synonyms None

Gene name **ONECUT3**

From *Mus musculus* (Mouse) [TaxID: 10090]

Taxonomy Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.

References

[1] SEQUENCE FROM NUCLEIC ACID.

STRAIN=129 SvEvTac1Br;

MEDLINE=21942113; PubMed=11944891; [NCBI, Expasy, EBI, Israel, Japan]

Vanhorenbeeck V., Jacquemin P., Lemaigre F.P., Rousseau G.G.;

"OC-3, a Novel Mammalian Member of the ONECUT Class of Transcription Factors.";

Biochem. Biophys. Res. Commun. 292:848-854(2002).

Comments

None

Cross-references

EMBL [AY080897](#); [AA186921.1](#); -, [EMBL / GenBank / DDBJ] [CodingSequence]

MGID [MG1891409](#); Onecut3.

GeneLynx [ONECUT3](#); *Mus musculus*.

GO:0005667; Cellular component: transcription factor complex (*inferred from direct assay*).

GO:0003700; Molecular function: transcription factor activity (*inferred from direct assay*).

GO:00006357;

Biological process: regulation of transcription from Pol II promoter

(inferred from direct assay).

SOURCE	Q8K557; Mus musculus.
Ensembl	Q8K557; Mus musculus. [Entry / Contig view]
InterPro	IPR007108; Cut_homeo.
	IPR003350; Hmoeo_CUT.
	IPR001356; Homeobox.
Pfam	Graphical view of domain structure.
	PF02576; CUT: 1.
	PF00046; homeobox: 1.
ProDom	PD000010; Homeobox: 1.
	[Domain structure / List of seq. sharing at least 1 domain]
SMART	SM100389; HOX: 1.
PROSITE	PS50071; HOMEBOX_2: 1.
HOVERGEN	[Family / Alignment / Tree]
ProtoMap	Q8K557.
PRESAGE	Q8K557.
ModBase	Q8K557.
SWISS-2DPAGE	Get region on 2D PAGE.

[illegible]

None

Figure 1. The effect of the concentration of the *Agrobacterium* suspension on the transformation efficiency of *Agrobacterium* strains.

None

[illegible]

Length: **490** Molecular weight: **49656** CRC64: **DBB3828589D6B03E** [This is a checksum on the
AA Da sequence]

Q8K557 is a protein of 100 amino acids, with a molecular weight of 10.5 kDa. It is a member of the GTP-binding protein family, and is involved in the regulation of the cell cycle. The protein is encoded by the Q8K557 gene, which is located on chromosome 12. The protein is expressed in various tissues, including liver, kidney, and heart. It is a highly conserved protein, with a high degree of sequence identity to other members of the GTP-binding protein family.

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or at NCBI (USA)



Sequence analysis tools: ProtParam, ProtScale,
Compute pI/Mw, PeptideMass, PeptideCutter,
Dotlet (Java)



ScanProsite, MotifScan



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1. Number	Hits	Search Text	DB	Time stamp
1	2	onecut	USPAT; US-PGPUB; EPO; JPO; DERWI:NI	2003-06-16 08:17
2	100	oe-2	USPAT; US-PGPUB; EPO; JPO; DERWI:NI	2003-06-16 08:17
3	1055	oe-3	USPAT; US-PGPUB; EPO; JPO; DERWI:NI	2003-06-16 08:17
4	0	onecut and transcription	USPAT; US-PGPUB; EPO; JPO; DERWI:NI	2003-06-16 08:18
6	0	oe-3 and transcription	USPAT; US-PGPUB; EPO; JPO; DERWI:NI	2003-06-16 08:18
5	22	oe-2 and transcription	USPAT; US-PGPUB; EPO; JPO; DERWI:NI	2003-06-16 08:18

FILE 'HONK' ENTERED AT 08:21:45 ON 16 JUN 2003

FILE 'MEDLINE, BIOSIS, CAPLUS, EMBASE, CANCERLIT' ENTERED AT 08:21:56 ON
16 JUN 2003

L1	66 S ONECUT
L2	431 S OC 2
L3	278 S OC 3
L4	862610 S TRANSCRIPTION
L5	53 S L1 AND L4
L6	32 S L2 AND L4
L7	24 S L3 AND L4
L8	84 S L5-L7
L9	36 DUP PEM L8 (48 DUPLICATES REMOVED)
L10	13 S L9 NOT PY>1999